Tat responsive element

Rev responsive element

SA/SD prevents protein expression from basal promoter activity

Packaging signal

Primer binding site

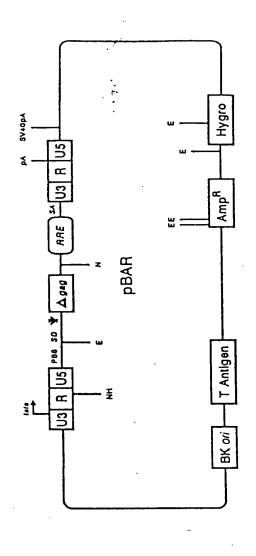
Different 5' and 3' LTR with a unique restriction site at the 5' LTR

IRES sequence for translation of two proteins from a dicistronic mRNA

Two protective genes are active at different stages of viral replication

Episomal replication

SV40pA to block activity from the 3' LTR



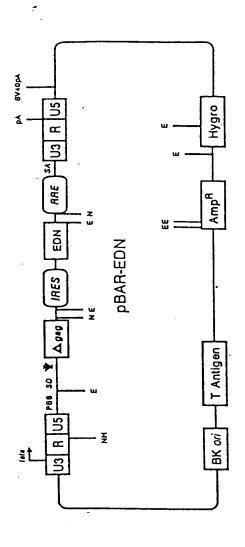


Figure 1

DGESCAS LESOS

Figure 2

Figure 3

SV40pA pBAR-EDN EDN A 940 res so 🖈 l

DUESTION TEATURE

E

				•
AFTICCCCCC TCTCCCTCCC CCCCCCTAA CGTTACTGGC CGAAGCCCT TCGAATAACG CCGCTCTCC TTCTCTATAT GTTATTTTCC ACCATATTGC CGTCTTTTCG CAATGTGACG CCCCGCAAAC CTCGCCCTGT CTTCTTCACG	ACCATTICCTA GOGOTCTTTC CCCTCTCCCC AAAGGAATGC AAGCTCTGTT GAATGTCGTG AAGGAAGCAG TITCCTCTGGA YXCTTCTTGA AGACAAACAA	CONCINCIACO CACCONTIGO AGONACION ACUCIONAL TUMBANALA TROCTICIOS YYCAAAACCO ACONGINITAA CATACACION CAAACCCOC ACAACCCOC ACAACCCOC ACAACCCOCA TOCCACOTTIC TCAGTIOGAT AGITICIOGAA ACACICAAAT	OSCIPCIOCIC ARCOSTATIC ARCAROSOCC TGARGCATTOC CCAGAROCTA CCCCATITOTA TOSCATOTICA TITTOSCOCCT COSTOCIACAT OCITITACATIC	TOTTTRETCE AGGITAAAAA ACSTCTAGOC CCCCCCAACC ACGCCCACCA GGTTTTCCT TTGAAAAAA CCATGATAAG CTTCCCAC

8

200.

\$

350

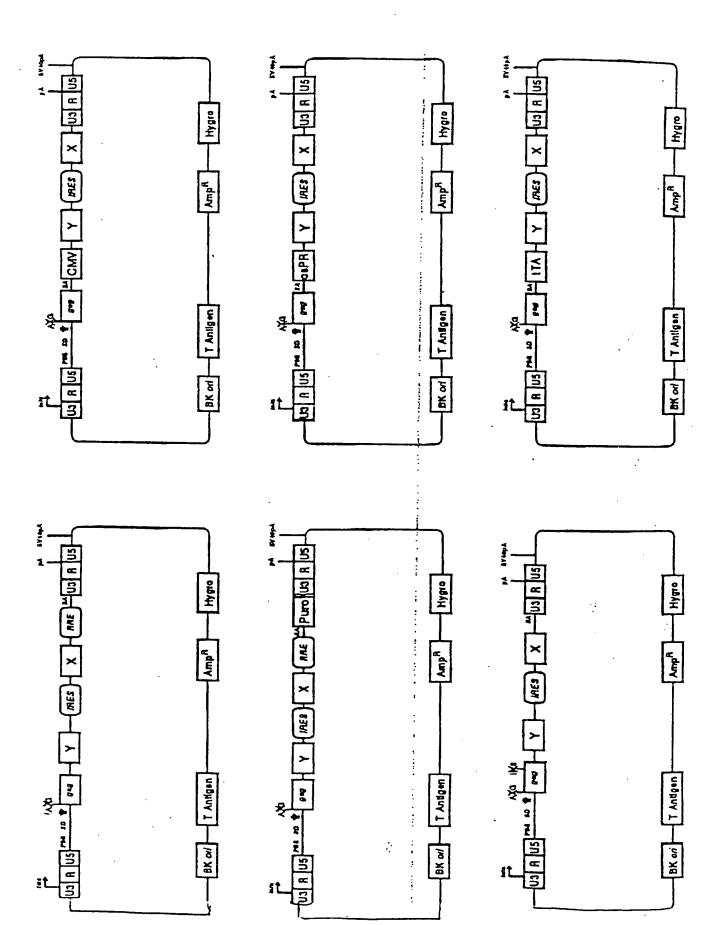
Intervening sequence

CTAGAAATAATTTTGTTTAACTTTAAGAAGGAGATATACAT<u>ATG</u>

EDN

T ATC AAC ATG ACT TCT
T GST TGC AAA AAC CAG
C GST AAC COG AAC ATG
T TCT CAG GTT COG CTG
C TGC CST TAC CCT CAG
C TGC CST TAC CCT CAG
C CAG CST CST CAC CCG CAC CAT CAT TOC TOT TOT TOT AND AND AND ANA COC COC CAC TIC ACT TOG CCT CA CAG CAG TOC ACT ANC CCT ATG CAG GT NAC ACT TTC CTG CTG ACT ACT TTC CC ACT TOC CCG TCT ANC ANA ACT CGT AA ATC CAT TOC ANC CTG ACT ACT CCG TC ACT CCG CCT ANC ATG TTC TAC ATC CTC CCG CAC TAC CCG GTT CTT CCG GTT CAC

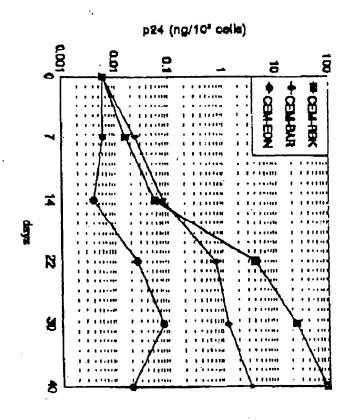
Figure 5



vectors for gene (rierapy

indection with HTV-1 green

)



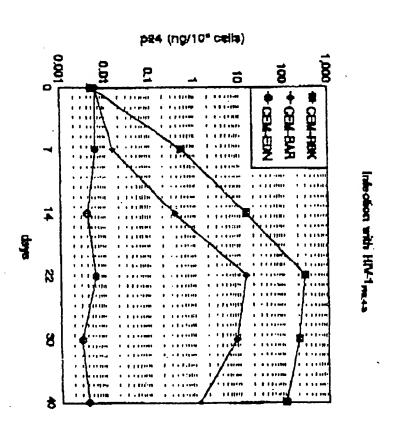


Figure 6

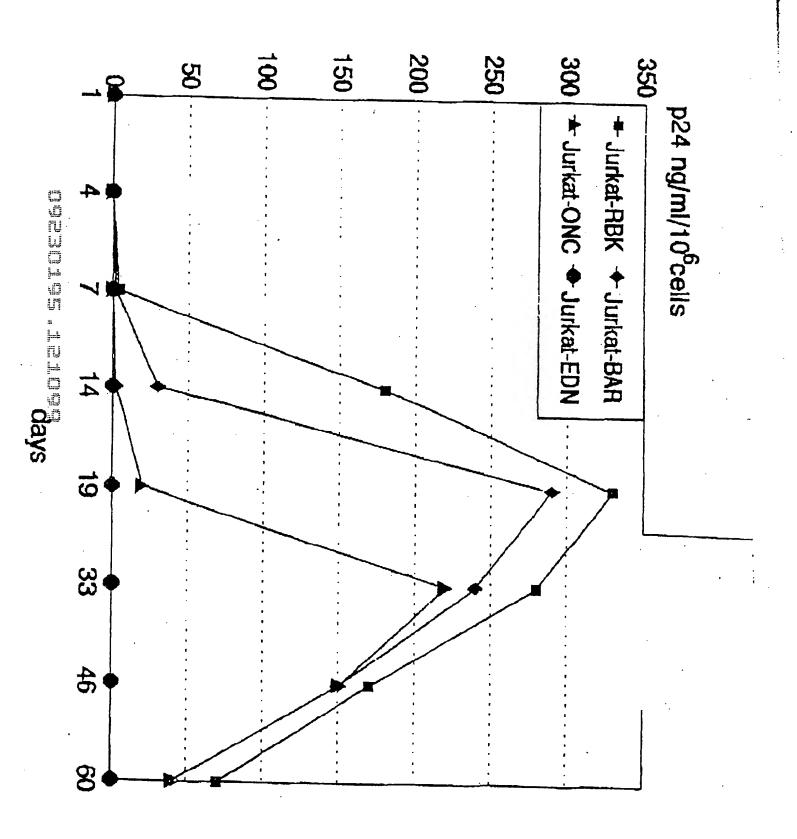


Figure 7